

Report Date: 13 May 2014

**Summary Report for Individual Task
101-92S-1100
Set Up The 3,000-Gal Collapsible Tank
Status: Approved**

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD7 - This product/publication has been reviewed by the training/educational developers in coordination with the Fort Lee, VA/CASCOM/TDD FD authority. This product is NOT releasable to students from foreign countries.

Condition: Your immediate supervisor tells you to set up the 3,000-gallon collapsible tank. You will have the help of a four-person detail from the supported unit. Materials and equipment required: 3,000-gallon collapsible tank with accessories, repair kit, foot bellows, water source, TM 10-5430-237-12&P, and DA Form 2404 or DA Form 5988-E. This task should not be trained in MOPP 4.

Standard: Complete all necessary steps IAW TM 10-5430-237-12&P to set up the 3,000-gallon collapsible tank. You will also be required to perform Operator's PMCS B (Before) - D (During) - A (After) operation. List all deficiencies on DA Form 2404 or DA Form 5988-E for processing as required.

Special Condition: None

Safety Risk: Low

MOPP 4: Never

Task Statements

Cue: Prepare a location close to the Laundry/Textile Specialist work site to assemble a 3K gallon collapsible tank for mission functions.

DANGER

None

WARNING

None

CAUTION

None

Remarks: None

Notes: Apply Risk Management Procedures

Performance Steps

CAUTION

Damage to tank may occur if chosen site is not free of sharp objects (rocks, sticks, glass, etc.) and a 10 percent slope [1 foot (0.3 meter) rise in 10 foot (3 meters) run] is exceeded.

1. Set-Up Tank

CAUTION

Use care when unpacking the tank. Tank can be easily damaged by tools, packing box nails, or other sharp objects.

- a. Position the packaged tank on an approved site.

Note: Each tank is provided with suitable packing around the tank. Do not damage, throw away, or use packing as a tarp. Keep packing with original shipping container.

- b. Open shipping container and remove tank and packing material. If a tank is being replaced, package the unserviceable tank in the empty container in the same manner that the new tank was packaged.

Note: If a tank is being replaced, package the unserviceable tank in the empty container in the same manner that the new tank was packaged.

- c. Set tank on the ground, with the four carry.
- d. Unfold the cover sufficiently to permit removal of tank.

CAUTION

Do not walk on outside or inside of tank or cover, as damage and/or contamination may occur.

- e. Remove the ground cloth and unfold on the selected installation area. Smooth out all creases and wrinkles. If tears or cuts in the ground cloth can be spread out smooth and the damaged area will be held together by the weight of the tank, the ground cloth can still be used.

- f. Lift tank from cover and set in center of installation area.

2. Assembly

- a. Unroll the tank and unfold the sides

- b. Perform the Before (B) preventive maintenance checks and services (PMCS), TM 10-5430-237-12&P, WP 0009 00.

(1) Installation Area: Inspect the installation area for sticks and other sharp objects that might cause punctures and leaks.

(2) Tank Envelope: Inspect for cuts, punctures and leaks. Model 3-K-W-0-A/Z: Inspect for damaged or missing zipper.

(3) Reinforcing Fittings: Inspect thread holes for damaged threads. Check that fittings are securely bonded to tank.

(4) Cover: Inspect for cuts or punctures. Model 3-K-W-O-A/Z has no cover.

(5) Float: Inspect for cuts or punctures. check that float is secured to underside of cover.

Model WT2008: Check that float is secured in the netting holder.

(6) Lift Handles and Stapes: Inspect for cuts and tears. check that handles and straps are secure.

(7) Handle-Toggles: Inspect handle for cuts or other damage. Inspect rope for cuts or frayed condition.

(8) Inflation Valves: Inspect valves for loose or damaged screws or other damage. Ensure valves can be rotated to both the open and closed positions.

(9) Deflation Valves: WT2008: Inspect valves for loose or damaged screws or other damage.

(10) Hand Pump: Inspect hose for cuts or damaged fittings. Inspect pump for damaged fitting or preformed packing.

(11) Foot Bellows: Inspect for cuts or damaged fittings. Inspect bellows for damaged fitting or o-ring, cut or punctured bellows.

(12) Fill/Discharge Fittings (2&3): Inspect for damage, leakage, loose or missing bolts.

(13) Repair Kit: Check for missing components (Table 1 WP 0029 00). Ensure instruction sheet is present.

(14) Ball Valve and Fitting: Inspect for damage, leakage or loose and frozen valve.

(15) Automotive Valves: Inspect valves for damaged valve core or stem.

(16) Ground Cloth: Inspect spread out ground cloth for evidence of debris or covered debris that could damage tank. Inspect cloth for through holes that allow the tank to have direct contact with the ground.

CAUTION

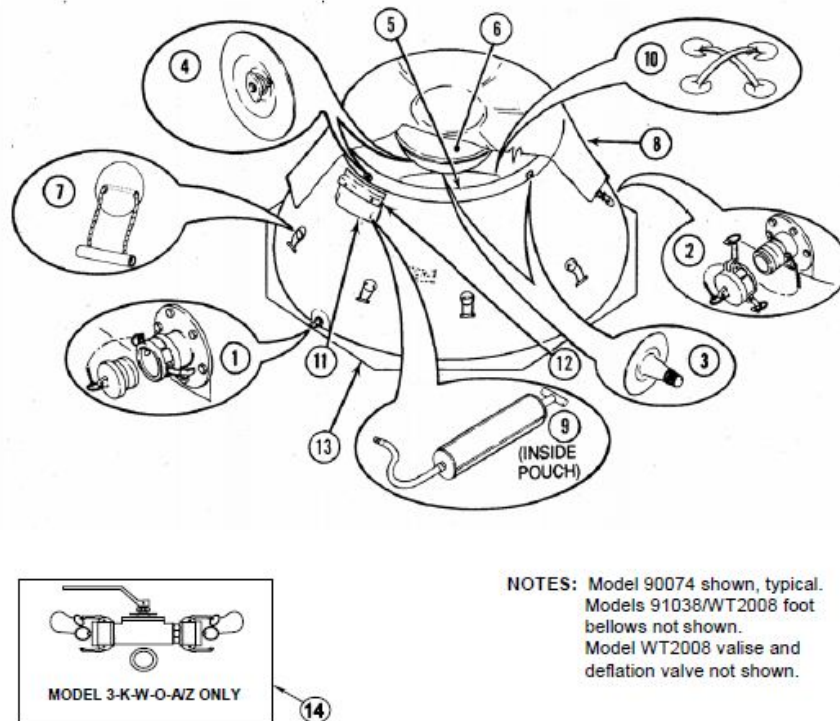
Damage to tank may occur if chosen site is not free of sharp objects (rocks, sticks, glass, etc.) and a 10 percent slope [1 foot (0.3 meter) rise in 10 foot (3 meters) run] is exceeded.

c. Spread out the tank, open end up, on the pre-positioned ground cloth.

3. Initial Adjustments and Routine Checks

Note: If the tank is cut or punctured during any phase of operation, refer to WP 0006 00 for emergency repair procedures.

a. Remove hand pump (1) and hose from repair pouch and connect hose to hand pump. For Model 91038, remove the foot bellows and hose from the repair pouch. Connect hose to foot bellow.



- b. Thread the hand pump or foot bellows hose into the inflation valve (2) in the tank collar (3).

CAUTION

The tank collar may also be inflated by attaching a standard automotive valve but is not recommended as damage may occur to collar.

- c. Open the inflation valve (2) by turning the center part of the valve clockwise, as stenciled on the collar (3).

Note: Model 90074 shown. Others similar

Models 91038 and WT2008 foot bellows not shown.

Do not over-inflate the tank collar. Maximum air pressure is 0.5 psi (3.4 kPa). Tank collar may be damaged if over-inflated.

- d. Operate the hand pump or foot bellows to inflate the collar (3) until firm.

Note: A firm touch approximates 0.5 psi (3.4 kPa).

- e. Close the inflation valve (2) on the cover float (5) by turning the center part of the valve counterclockwise, as stenciled on the cover float.

- f. Unthread the hand pump or foot bellows hose from the inflation valve on the collar and thread into the inflation valve in the cover float. Insure float is securely attached to cover.

CAUTION

The float may also be inflated by attaching a standard automotive pump to the automotive valve, but it is not recommended as damage may occur to float.

g. Open the inflation valve (2) on the cover float by turning the center part of the valve clockwise (to the right), as stenciled on the cover float (5).

h. Operate the hand pump or foot bellow to inflate the cover float until firm.

Note: A firm touch approximates 0.5 psi (3.4 kPa).

i. Close the inflation valve on the cover float.

j. Unthread the hand pump/foot bellows hose (1) from the inflation valve (5), disconnect hose from the hand pump or foot bellows. Store items in the repair pouch.

4. INITIAL ADJUSTMENTS AND ROUTINE CHECKS (Model GTA-Z60TPW Only)

Note: If the tank is cut or punctured during any phase of operation, refer to WP 0006 00 for emergency repair procedures.

a. Pull tank from perimeter so there are no wrinkles on the bottom of the tank.

b. To avoid damaging tank, kneel down on tank to remove top cover by unsealing from tank.

c. Unseal top opening of tank and look inside tank to check that it is clean and there are no foreign objects inside.

d. Reseal top tank opening. Make sure seal is smooth with no wrinkles.

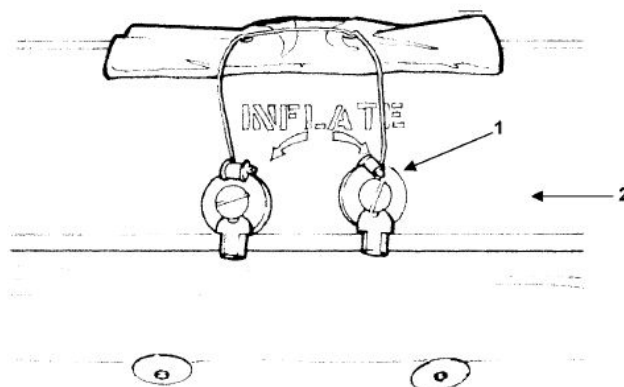
e. Replace cover over sealed tank opening. Attach cover to tank, making sure there are no wrinkles.

f. Remove protective wrapping from fittings (6) and (7) and save for repacking after use.

5. INITIAL ADJUSTMENTS AND ROUTINE CHECKS (Model WT2008 Only)

Note: If the tank is cut or punctured during any phase of operation, refer to WP 0006 00 for emergency repair procedures.

a. Remove the foot bellows and hose from repair pouch. Connect hose to foot bellow.



CAUTION

Do not over-inflate the tank collar. Maximum air pressure is 0.5 psi(3.4 kPa). Tank collar may be damaged if over-inflated. The tank collar may also be inflated by attaching a standard automotive pump to the automotive valve (located on the other side of the tank) but is not recommended as damage may occur to collar.

b. Remove plugs from the two non-return valves (1). Insert foot bellows tube into valve inlet.

c. Operate the foot bellows to inflate the collar (2) until firm.

d. Remove the bellows tube and replace the inflation valve plugs (1).

Note: A firm touch approximates 0.5 psi (3.4 kPa).

CAUTION

Do not over-inflate the cover float. Maximum air pressure is 0.5 psi (3.4 kPa). Cover float may be damaged if over-inflated.

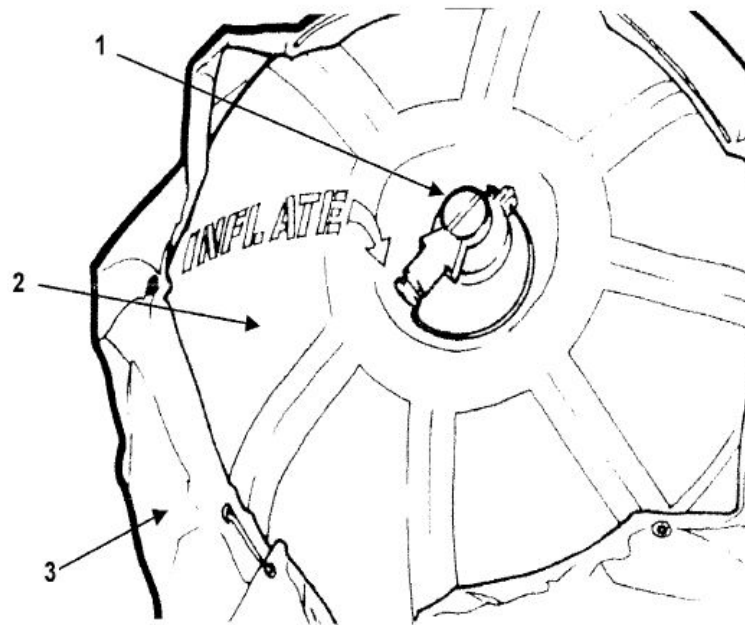
e. Remove the inflation valve plug (1) on the cover float. Insert foot bellows hose into float inflation valve.

f. Operate the foot bellow to inflate the cover float (2) until firm.

Note: A firm touch approximates 0.5 psi (3.4 kPa).

g. Remove foot bellow hose and replace float inflation valve plug.

h. With float inflated, fit into the netting holder (3) with the inflation valve uppermost and secure in position with the drawstring on the holder.



i. Store foot bellows in the repair pouch.

6. OPERATING PROCEDURES (Filling the Tank)

Note: The number and type of fastening devices to attach the cover to the tank may vary between tank models.

a. Place cover over top of tank, ensuring that cover float is positioned inside tank first, and align the ten cover handles around the edge of the cover with the ten handle-toggles around the tank.

b. Loop the cover handles over the handle-toggles. Pull the handle-toggles down over the cover handles and tuck the ends under the rope, to secure the cover into position.

Note:

c. Remove the dust plug from the female cam-lock coupling or the dust cap from male cam-lock coupling by pulling out on cam-lever arms.

Note: There are two fill/discharge fittings which provide a 2-inch (50.8 mm) coupling located at opposite ends of the tank. One end provides a female cam-lock coupling; the other end provides a male cam-lock coupling. Either, or both, may be used for filling the tank.

d. Connect water fill/discharge lines to the fittings; secure by pushing cam-lever arms in against hose, or fill tank through top opening.

Note: Do not exceed capacity of tank. If metering gauge is not available, tank is full when water level reaches lower edge of the tank collar.

e. Fill the tank. A maximum of 3,000 gallons (11,356 liters) may be put into the tank.

f. Check the tank for holes.

g. Turn off flow of water when tank is full.

h. Disconnect supply line from the tank, and stop the flow of water by installing the dust plug in the female cam-lock couplings (6) or the dust cap on the male cam-lock coupling (7).

i. Perform the During (D) preventive maintenance checks and services (PMCS) WP 0009 00.

(1) Tank Envelope: Inspect for cuts, punctures and leaks.

(2) Fill/Discharge Fitting (2&3): Inspect for damage, leakage, loose or missing bolts.

7. OPERATING PROCEDURES (Filling the Tank) - MODELS GTA-Z60TPW and 3-K-W-O-A/Z

Note: There are two fill/discharge fittings which provide a 2-inch (50.8 mm) coupling located at opposite ends of the tank. One end provides a female cam-lock coupling; the other end provides a male cam-lock coupling. Either, or both, may be used for filling the tank.

a. Remove the dust plug from the female cam-lock coupling or the dust cap from male cam-lock coupling by pulling out on cam-lever arms.

b. Connect 2" ball valve assembly to the fittings; secure by pushing cam-lever arms in against hose.

c. Attach hose to 2" ball valve assembly. Open ball valve assembly.

d. Begin filling the tank. A maximum of 3,000 gallons (11,356 liters) may be stored in the tank. GTA-Z60TPW tank is full when height of 45" is reached. Model 3-K-W-O-A/Z tank is full when 56" height is reached.

Note: Do not exceed capacity of tank. If metering gauge is not available, tank is full when water level reaches lower edge of the tank top seam.

e. When tank is full, turn off flow of water from supply line.

f. Close ball valve.

g. Disconnect supply line from the tank ball valve assembly.

h. Install the dust plug or the dust cap on the ball valve assembly.

i. Perform the During (D) preventive maintenance checks and services (PMCS) WP 0009 00.

(1) Tank Envelope: Inspect for cuts, punctures, and leaks.

(2) Fill/Discharge Fittings (2&3): Inspect for damage, leakage, loose or missing bolts.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier GO if all steps are passed (P). Score the Soldier NO-GO if any step is failed (F). If the Soldier fails any step, show what was done wrong and how to do it correctly.

Evaluation Preparation: view the evaluation guide to become familiar with the information on which the Soldier will be scored. Determine if the Soldier has to be watched while performing the task (process) or if focus on what results from the Soldier doing the task (product).

Prepare the test site according to the conditions section of the task summary.

Provide the Soldiers with any special instructions from the evaluation preparation section before testing. Score the Soldier according to the performance steps and standards contained on the evaluation guide. Record the results on DA Form 5164-R. Record the date in the appropriate GO or NO-GO block in the individual Soldier's leader book and, if used, DA Form 5165-R. Have those Soldiers who fail to perform to SM standards continue practicing.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Prepared a location for 3k bag placement.			
2. Performed PMCS before (B), during (D), and after (A) Operations in accordance with TM 10-5430-237-12&P.			
3. Positioned the tank and its components.			
4. Inflated the tank collar and cover float.			
5. Installed filler plug and dust cap.			
6. Filled the tank with water a maximum of 3,000 gallons.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	FM 42-414	TACTICS, TECHNIQUES, AND PROCEDURES FOR QUARTERMASTER FIELD SERVICE COMPANY, DIRECT SUPPORT	Yes	No

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. EPA Regulations In The United States - Rules and regulations for wastewater discharges are set by the EPA or a state with an EPA-approved program under the NPDES, established under the CWA. The NPDES sets minimum treatment standards for surface waters discharges. It also sets up the framework for setting more discharge standards. For disposal of discharges, apply for and obtain an NPDES permit (or state equivalent), which contains discharge standards and restrictions that apply to the given discharge. Before operating any S/L elements in the United States, check with the state and local EPA for permit(s) requirements.

EPA Discharge Permits - Many military installations may have current discharge permits for water sources located on the installation, which are used by S/L elements. Check with the Installation Environmental Office for guidance. Always consider the potential environmental impact of chemical or waste discharges on a water source.

EPA Regulations In Other Countries - It is always necessary to check with local authorities for regulatory requirements. Each country in which water purification, storage, and distribution operations may be used will have their own guidance on disposal of chemical and waste discharges in a training exercise, as well as ambient water quality criteria. Units must comply with environmental standards applicable in the host country.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. **WARNINGS**

This warning summary contains general safety warnings and hazardous materials warnings that must be understood and applied during operation and maintenance of this equipment. Failure to observe these precautions could result in serious injury or death to personnel.

HEALTH HAZARD

The solvent and adhesive furnished in the repair kit for Models 90074, WT 2008, 91038 and GTA-Z60TPW are highly flammable and toxic to the skin, eyes, and respiratory tract. Skin/eye protection is required. Avoid prolonged breathing of vapors, and minimize skin contact. Good general ventilation is normally adequate. Keep away from excessive heat, open flame, or other sources of ignition. Clean parts in a well-ventilated area. Avoid inhalation of solvent fumes and prolonged exposure to cleaning solvent. Wash exposed skin thoroughly. Solvent used to clean parts is potentially dangerous to personnel and. Do not use near open flame or excessive heat.

CAUTION

If the tank is used in temperatures below freezing [32°F (0°C)], caution must be used to prevent water in the tank, or in contact with metal parts, from freezing. If water freezes, damage may occur to the tank and/or metal parts.

CAUTION

DISPOSE OF HAZARDOUS MATERIALS (such as, fuels, grease, oil, and contaminated rags) IAW unit Standing Operating Procedures/Operations Order (OPORD), local regulations, and/or host nation laws. Use rags to contain any excess fluids. Dispose of rags in appropriate accumulation containers.

CAUTION

Damage to tank may occur if chosen site is not free of sharp objects (rocks, sticks, glass, etc.) and a 10 percent slope [1 foot (0.3 meter) rise in 10 foot (3 meters) run] is exceeded.

CAUTION

Use care when unpacking the tank. Tank can be easily damaged by tools, packing box nails, or other sharp objects.

CAUTION

Do not walk on outside or inside of tank or cover, as damage and/or contamination may occur.

CAUTION

Do not over-inflate the tank collar. Maximum air pressure of 0.5 psi.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks :

Task Number	Title	Proponent	Status
10-2-0053	Provide Shower Service	10 - Quartermaster (Collective)	Approved

ICTL Data :

ICTL Title	Personnel Type	MOS Data
92S Shower/Laundry And Clothing Repair Specialist SL 10	Enlisted	MOS: 92S, Skill Level: SL1, Duty Pos: QKP, LIC: EN, SQI: O